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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,604	02/08/2006	Yoon Gun Back	HII0266	2048
34610	7590	09/01/2009	EXAMINER	
KED & ASSOCIATES, LLP P.O. Box 221200 Chantilly, VA 20153-1200			YABUT, DANIEL D	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/567,604	Applicant(s) BAEK, YOON GUN
	Examiner DANIEL YABUT	Art Unit 3656

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 08 February 2006.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.

4a) Of the above claim(s) ____ is/are withdrawn from consideration.

5) Claim(s) ____ is/are allowed.

6) Claim(s) ____ is/are rejected.

7) Claim(s) ____ is/are objected to.

8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 08 February 2006 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. ____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-166/08)
Paper No(s)/Mail Date ____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date ____

5) Notice of Informal Patent Application

6) Other: ____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1-20** are rejected under 35 U.S.C. 102(b) as being anticipated by Bauer et al., US Patent 4,656,926.

Bauer et al. discloses a manipulation device (Fig. 1) comprising a(n):

Re claim 1

- Control panel (2)
- Dial knob (4) stably mounted on the control panel, the dial knob including a coupling shaft (71) formed at a center portion with a predetermined length (C4 / L1-5) and at least one guide fib (48) formed on an outer surface of the coupling shaft
- Output adjusting gear (7) coupled with the dial knob (C3 / L64-68)

Re claim 2

- Recessed portion (at 47; Fig. 1) on which the dial knob is mounted.

Re claim 3

- Knob hole (at 72; Fig. 1) at a predetermined location in which the dial knob is inserted for the stable mounting (C3 / L58-60).

Re claim 4

- Stop projection (65) protruded from a circumference of the knob hole toward a center of the knob hole to restrict a movement of the dial knob within a predetermined range (C4 / L8-12)

Re claim 5

- Coupling member (near 56, 40, 73) is inserted at an end of the coupling shaft to fix the output adjusting gear to the dial knob.

- *Re claim 6*
- Coupling shaft comprises a hole (near 71) at a leading end with a predetermined depth, for receiving a coupling member (C4 / L36-39).

Re claim 7

- Guide rib comprises a coupling tab (at 48) protruded from a leading end with a predetermined width and height (Fig. 3)

Re claim 8

- Guide rib comprises a reinforcement rib (at 48) formed at one side with a predetermined width and length (Fig. 3)

Re claim 9

- Dial knob (4)
- Coupling shaft (71) extending from a center of the dial knob with a predetermined length
- Output adjusting gear (7) having a shaft hole (near 18; Fig. 1) in which the coupling shaft is inserted
- Control panel (2) in which the dial knob is rotatably inserted
- Coupling member (near 56, 40, 73) fixing the output adjusting gear to the dial knob, for an integral rotation of the output adjusting gear with the dial knob (C4 / L27-29, L36-39)

Re claim 10

- Output adjusting gear comprises a tab slot (49) extending from a circumference of the shaft hole with a pre-determined length.

Re claim 11

- Output adjusting gear comprises a guide surface (near 18; Fig. 2) for preventing an engaged (near 19; Fig. 2) gear from separating from the output adjusting gear.

Re claim 12

- Output adjusting gear comprises a guide surface (near 18; Fig. 2) on a back, an outer diameter of the guide surface being larger than an outer diameter of gear teeth of the output adjusting gear (Fig. 2)

Re claim 13

- Coupling member is a screw of which outer surface is threaded (see screw near 73; Fig. 1)

Re claim 14

- Output adjusting gear comprises a gear sleeve formed at a back with a predetermined diameter and height.
- *Re claim 15*
- Mounting surface at one side on which the dial knob is stably mounted
- Receiving sleeve (near 47; Fig. 1) formed on the other side with a predetermined diameter and height to stably receive the output adjusting gear.

Re claim 16

- Output adjusting gear comprises at least one slot (49) extending radially from a circumference of the shaft hole with a predetermined length and width.

Re claim 17

- Output adjusting gear comprises at least one slot (47) in which a rib formed on the coupling shaft is inserted, such that the dial knob is rotated integrally with the output adjusting gear without slip (C3 / L64-68).

Re claim 18

- Dial knob (4)
- Output adjusting gear (7) coupled with the dial knob for transmitting the rotation motion of the dial knob

- Control panel (2) having a knob hole (near 47; Fig. 1) in which the dial knob is rotatably inserted and a stop projection (65) extending from a circumference of the knob hole toward a center of the knob hole
- Coupling member (near 56, 40, 73) for the coupling of the dial knob and the output adjusting gear (C4 / L36-39)

Re claim 19

- Rotational range of the dial knob inserted in the knob hole is determined by a width of the stop projection (C4 / L8-13)

Re claim 20

- Guide surface (near 18; Fig. 2) on a side to prevent an engaged gear (near 19) from separating from the output adjusting gear.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL YABUT whose telephone number is (571)270-5526. The examiner can normally be reached on Monday through Friday from 9:00 A.M. to 5:00 P.M. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard W. Ridley can be reached on (571)272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DANIEL YABUT/
Examiner, Art Unit 3656
8/27/2009

/Richard WL Ridley/
Supervisory Patent Examiner, Art Unit 3656